CLAIMS LISTING

- 1. (currently amended) A stimulable phosphor screen or panel suitable for use in mammographic applications comprising a binderless phosphor layer having needle-shaped crystals, said layer not exceeding a layer thickness of 150 µm, and a support characterized in that wherein an intermediate layer arrangement of an X-ray absorbing foil or layer absorbing x-rays to a lower extent, and avoiding scattering to a great extent, and, farther from the support, a stimulated light reflecting foil is present between said support and said phosphor layer.
- 2. (previously presented) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises an X-ray absorbing layer comprising a binder wherein said binder is a matrix of a polycondensation product of a metal alkoxide species, and an oxide or a hydroxide of lead metal is dispersed in said binder.
- 3. (original) A stimulable phosphor screen or panel according to claim 2, wherein said binder containing the lead compound is a matrix of an inorganic network of alkoxymetal substituted organic polymers or copolymers matrix.

- 4. (original) A stimulable phosphor screen or panel according to claim 3, wherein said matrix is derived from a cross-linking agent selected from the group consisting of dialkoxysilanes, trialkoxysilanes, tetraalkoxysilanes, titanates, zirconates and aluminates; and a colloid of silica, and wherein said matrix comprises a colloid of an oxide or a hydroxide of lead metal.
- 5. (original) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises, as an X-ray absorbing layer a layer of lead.
- 6. (original) A stimulable phosphor screen or panel according to claim 1, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 7. (original) A stimulable phosphor screen or panel according to claim 2, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 8.(cancelled)
- 9. (cancelled)
- 10.(cancelled)
- 11. (original) A phosphor screen or panel according to claim 1, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.

- 12. (original) A phosphor screen or panel according to claim 6, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.
- 13. (original) A phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 14. (original) A phosphor screen or panel according to claim 6, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 15. (cancelled)
- 16. (cancelled)
- 17. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 18. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 19. (cancelled)
- 20. (cancelled)

- 21. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 22. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 23. (cancelled)
- 24. (cancelled)
- 25. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 26. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 27. (cancelled)
- 28. (cancelled)
- 29.(cancelled)
- 30.(cancelled)
- 31.(cancelled)

- 32.(cancelled)
- 33. (cancelled)
- 34. (currently amended) A binderless stimulable phosphor screen or panel according to claim 30 claim 1, wherein said needle-shaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 35.(currently amended) A binderless stimulable phosphor screen or panel according to claim 31 claim 2, wherein said needle-shaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 36. (cancelled)
- 37. (currently amended) A binderless stimulable phosphor screen according to claim 29 claim 34, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 38.(currently amended) A binderless stimulable phosphor screen according to claim 30 claim 35, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 39.(cancelled)
- 40. (cancelled)

- 41. (cancelled)
- 42. (cancelled)
- 43. (cancelled)
- 44. (cancelled)
- 45.(new) A phosphor screen or panel according to claim 1, wherein said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 μm .
- 46.(new) A phosphor screen or panel according to claim 2, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 μm .
- 47.(new) A phosphor screen or panel according to claim 5, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 μm .
- 48.(new) A phosphor screen or panel according to claim 6, wherein said aluminum layer has a thickness in the range of 0.5 μm to 5 μm .
- 49.(new) A phosphor screen or panel according to claim 7, wherein said aluminum layer has a thickness in the range of . 0.5 μ m to 5 μ m.
- 50.(new) A phosphor screen or panel according to claim 1, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .

- 51.(new) A phosphor screen or panel according to claim 2, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 52.(new) A phosphor screen or panel according to claim 5, wherein said support is a PET support having a thickness in the range from 100 μ m to 1000 μ m.
- 53.(new) A phosphor screen or panel according to claim 6, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 54.(new) A phosphor screen or panel according to claim 7, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 55.(new) A phosphor screen or panel according to claim 1, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.
- 56.(new) A phosphor screen or panel according to claim 2, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.
- 57.(new) A phosphor screen or panel according to claim 5, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.

- 58.(new) A phosphor screen or panel according to claim 6, wherein said support is an amorphous carbon support having a thickness in the range from 100 μm to 3000 μm .
- 59.(new) A phosphor screen or panel according to claim 7, wherein said support is an amorphous carbon support having a thickness in the range from 100 μm to 3000 μm .